GB **Original operating instructions**
Band Saw

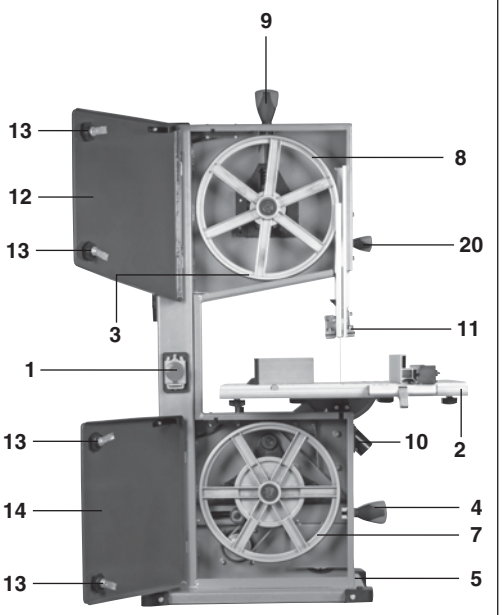
Einhell®

7

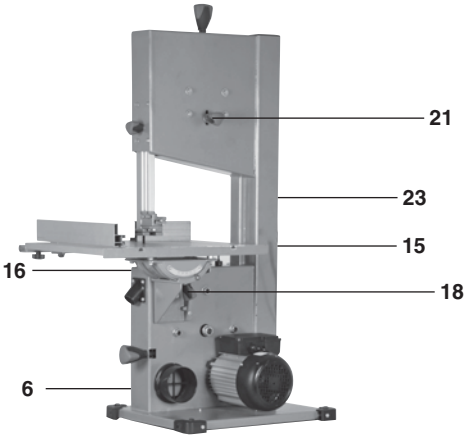
Art.-Nr.: 43.080.52 **I.-Nr.: 11012**

RT-SB 305

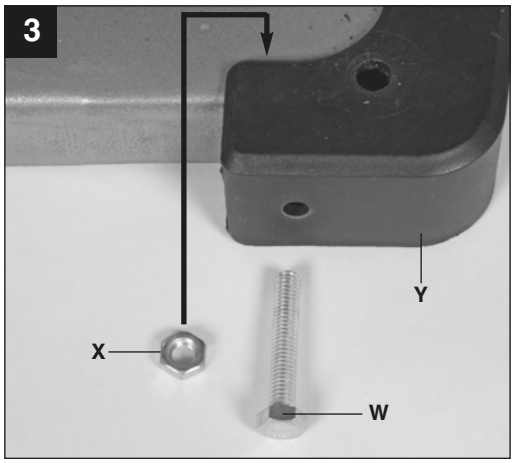
1

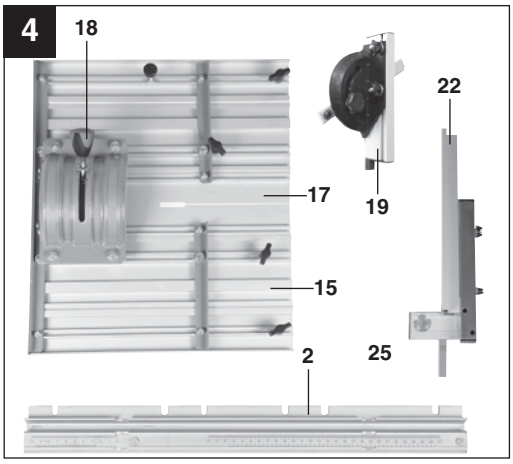


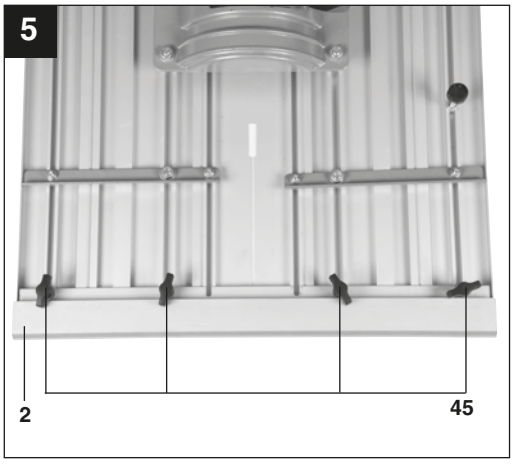
2

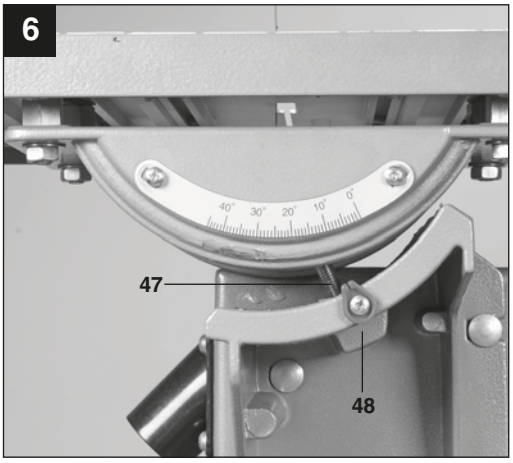


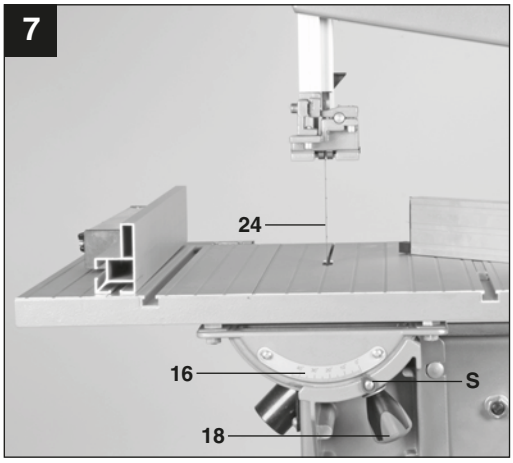
3

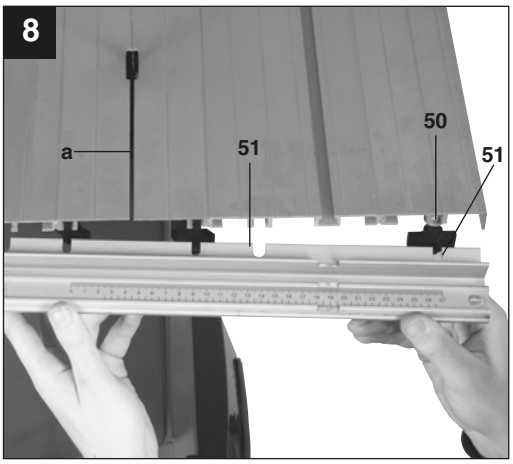


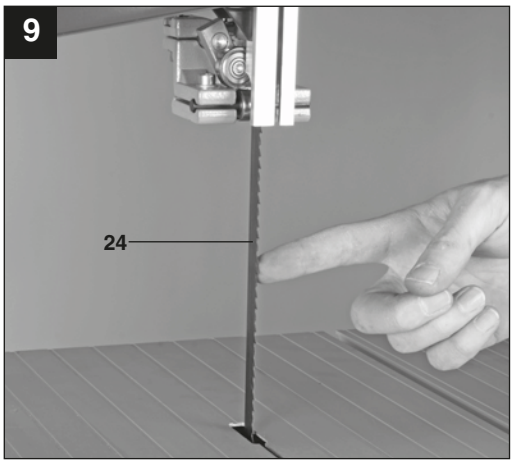

4
18
22
17
19
15
2
25

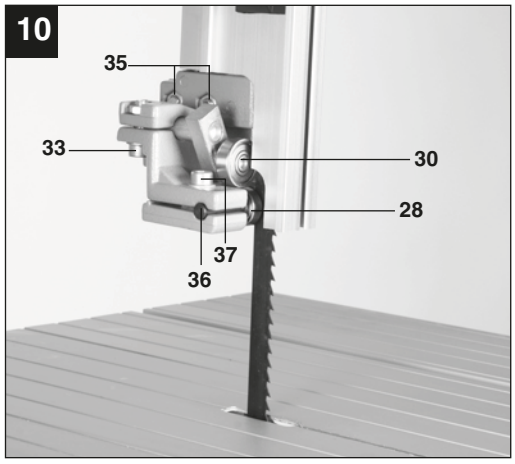

5
2
45

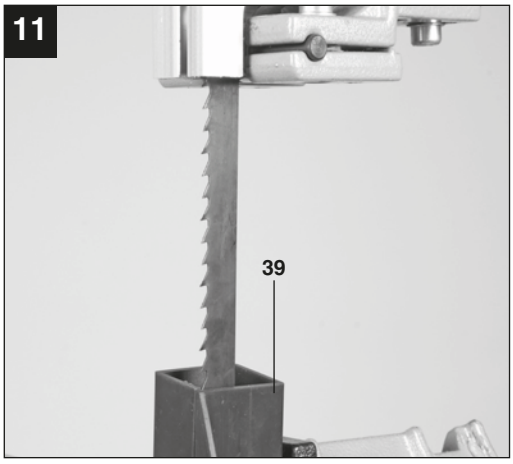

6
47
48

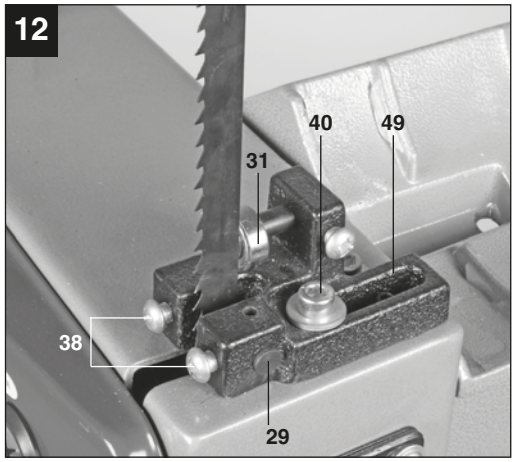

7
24
16
S
18

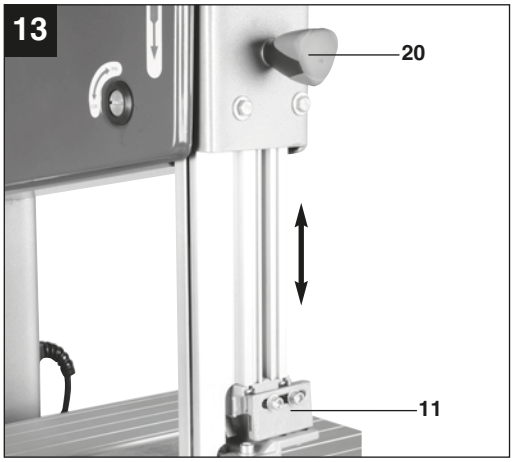

8
a
51
50
51

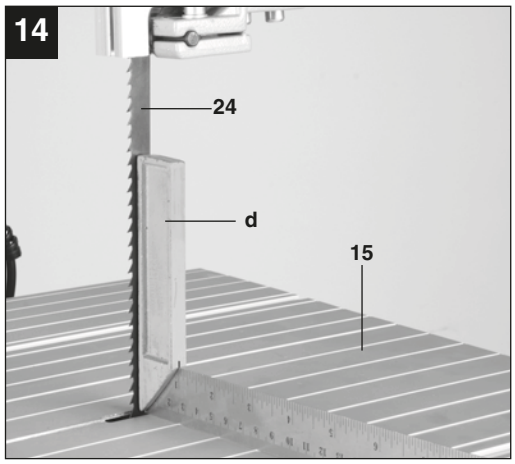

9
24

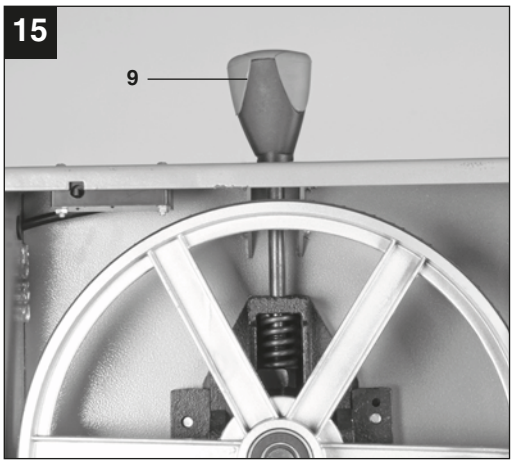

10
35
33
30
28
37
36

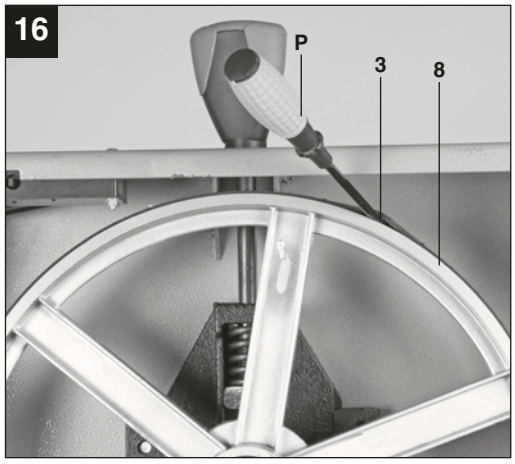

11
39

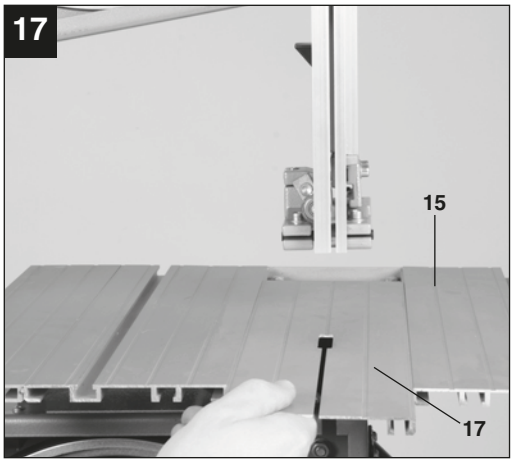

12
40
49
31
38
29

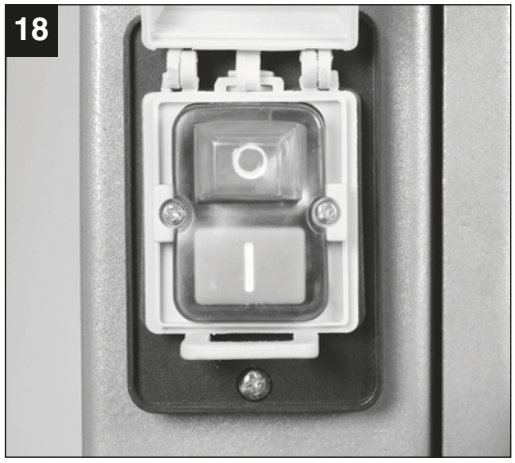

13
20
11

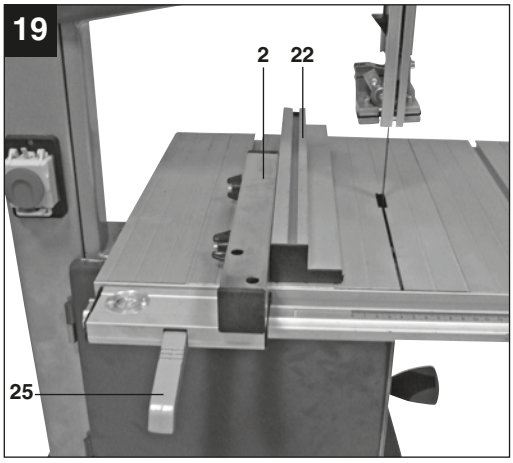

14
24
d
15

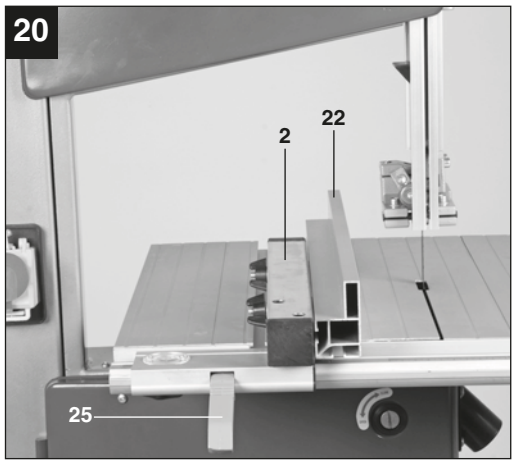

15
9

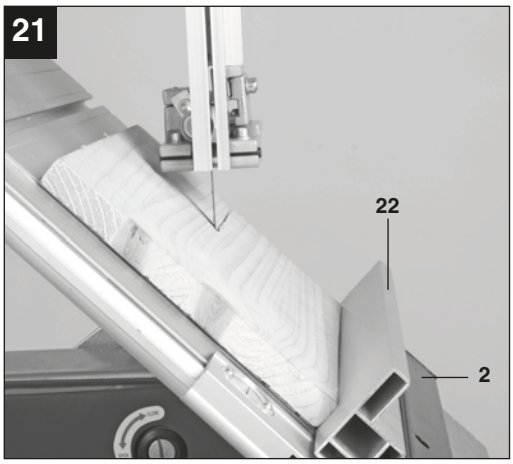

16
P
3
8


17
15
17

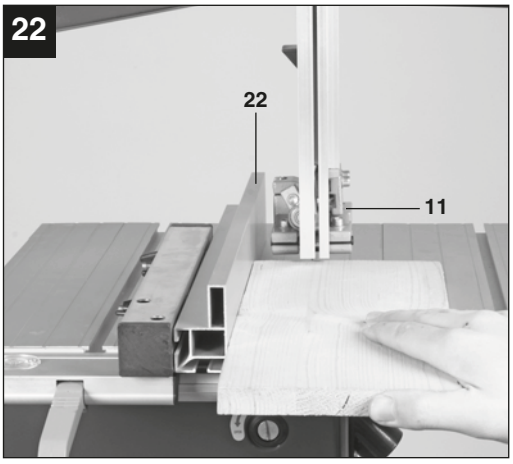

18


19
2
22
25

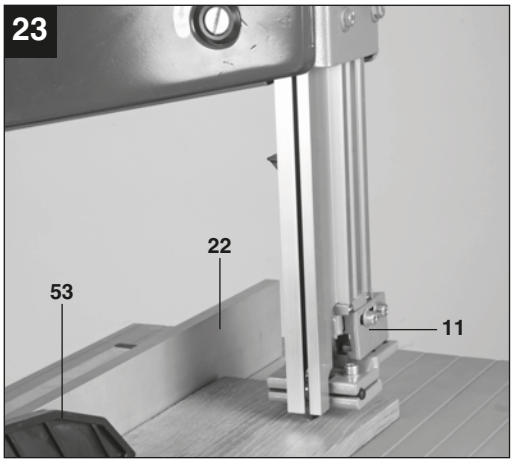

20
2
22
25


21
22
2

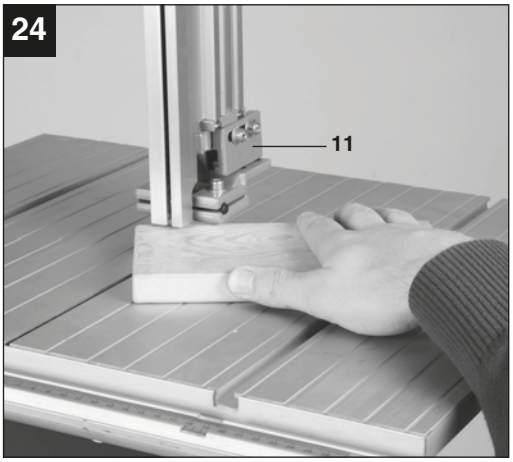
22



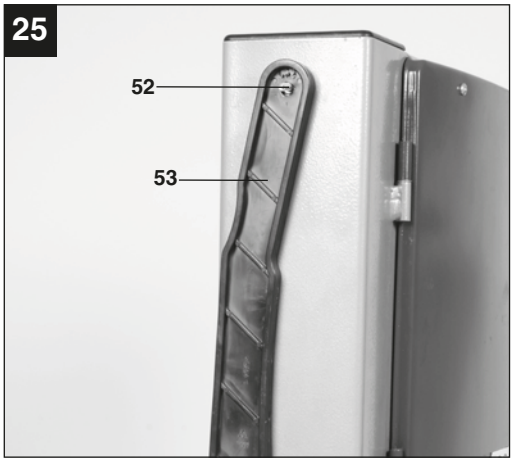
23



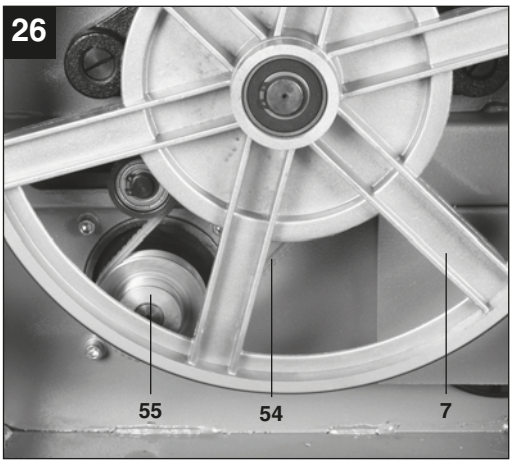
24



25



26



27

GB

Pull the power plug before beginning any repair or maintenance work!!

“Caution - Read the operating instructions to reduce the risk of injury”

Wear ear-muffs.
The impact of noise can cause damage to hearing.

Wear a breathing mask.
Dust which is injurious to health can be generated when working on wood and other materials.
Never use the device to work on any materials containing asbestos!

Wear safety goggles.
Sparks generated during working or splinters, chips and dust emitted by the device can cause loss of sight.

⚠ **Important!**
When using the equipment, a few safety precautions must be observed to avoid injuries and damage. Please read the complete operating instructions and safety regulations with due care. Keep this manual in a safe place, so that the information is available at all times. If you give the equipment to any other person, hand over these operating instructions and safety regulations as well. We cannot accept any liability for damage or accidents which arise due to a failure to follow these instructions and the safety instructions.

1. Machine layout (Figures 1, 2, 3, 25)

1. ON/OFF switch
2. Cross fence
3. Rubber tires
4. Handle wheel
5. Machine foot
6. Extractor connection, 100 mm diameter
7. Lower blade pulley
8. Upper blade pulley
9. Tightening screw
10. Extractor connection, 36 mm diameter
11. Upper blade guide
12. Side cover
13. Fasteners
14. Side cover
15. Saw table
16. Dial scale for tilt angle
17. Table insert
18. Fixing handles for saw table
19. Angle stop
20. Fixing handle for blade guide
21. Setting screw for upper blade pulley
22. Parallel stop
23. Machine frame
24. Blade
25. Clamp lever
53. Push stick

2. Items supplied

- Band saw
- Machine table
- Plastic corners
- Fixing screws (for corners)
- Push stick
- Parallel stop
- Blade
- Angle stop

3. Proper use

The band saw is designed to perform longitudinal and cross cuts on timber or wood-type materials. To cut round materials you must use suitable holding devices. **The machine is to be used only for its prescribed purpose.**
Any use beyond that mentioned is considered to be a case of misuse. The user/operator and not the manufacturer shall be liable for any damage or injury resulting from such cases of misuse.
The machine is to be operated only with suitable saw blades. To use the machine properly you must also observe the safety regulations, the assembly instructions and the operating instructions to be found in this manual.
All persons who use and service the machine have to be acquainted with this manual and must be informed about the machine's potential hazards.
It is also imperative to observe the accident prevention regulations in force in your area.
The same applies for the general rules of occupational health and safety.
The manufacturer shall not be liable for any changes made to the machine nor for any damage resulting from such changes.
Even when the machine is used as prescribed it is still impossible to eliminate certain residual risk factors. The following hazards may arise in connection with the machine's construction and design:

- Damage to hearing if ear-muffs are not used as necessary.
- Harmful emissions of wood dust when used in closed rooms.
- Contact with the blade in the uncovered cutting zone.
- Injuries (cuts) when changing the blade.
- Injury from catapulted workpieces or parts of workpieces.
- Crushed fingers.
- Kickback.
- Tilting of the workpiece due to inadequate support.
- Touching the blade.
- Catapulting of pieces of timber and workpieces.

Please note that our equipment has not been designed for use in commercial, trade or industrial applications. Our warranty will be voided if the machine is used in commercial, trade or industrial businesses or for equivalent purposes.

GB

4. Important notes

Safety information

IMPORTANT! Whenever you use electric tools it is imperative to take basic safety precautions in order to reduce the risk of fire, electric shock and personal injury.

The corresponding safety information can be found in the enclosed booklet.

⚠ **CAUTION!**
Read all safety regulations and instructions.
Any errors made in following the safety regulations and instructions may result in an electric shock, fire and/or serious injury.
Keep all safety regulations and instructions in a safe place for future use.

5. Technical data

Voltage:	220-240V ~ 50 Hz
Power:	750 W
Ideal speed no:	1400 min^{-1}
Blade length:	2240 mm
Max. blade width:	13 mm
Blade speed:	370/800 m/min
Max. cutting height:	5 - 170 mm / 90°
	90 mm / 45°
Throat:	300 mm
Table size:	520 x 400 mm
Tilting range of table:	0° to 45°
Workpiece size:	600 x 600 mm
Weight:	49 kg

Noise emission values

Sound and vibration values were measured in accordance with EN 61029.

L_{pA} sound pressure level	77.4 dB(A)
K_{pA} uncertainty	3 dB
L_{WA} sound power level	90.4 dB(A)
K_{WA} uncertainty	3 dB

Wear ear-muffs.
The impact of noise can cause damage to hearing.

Keep the noise emissions and vibrations to a minimum.
- Only use appliances which are in perfect working order.
- Service and clean the appliance regularly.
- Adapt your working style to suit the appliance.
- Do not overload the appliance.
- Have the appliance serviced whenever necessary.
- Switch the appliance off when it is not in use.

6. Before putting the machine into operation

- Make sure the machine stands securely, i.e. bolt it to a workbench or solid base. There are two holes for this purpose in the machine foot.
- The saw table must be mounted correctly.
- All covers and safety devices have to be properly fitted before the machine is switched on.
- It must be possible for the blade to run freely.
- When working with wood that has been processed before, watch out for foreign bodies such as nails or screws etc.
- Before you actuate the On/Off switch, make sure that the saw blade is correctly fitted and that the machine's moving parts run smoothly.
- Before you connect the machine to the power supply, make sure the data on the rating plate is the same as that for your mains.

7. Assembly

CAUTION!
Pull out the power plug before carrying out any maintenance, resetting or assembly work on the band saw!

7.1 Assembling the saw base (Figure 3)
- Secure the plastic corners (Y) to the corners of the machine frame using the screws (W) and nuts (X).

7.2 Assembling the saw table (Figures 5-8)
- Slacken the wing nuts (45) on the underside of the saw table (15) and remove the cross fence (2) from the saw table.
- Lead the blade through the slot (a) in the machine table and place the machine table on the table guide so that the clamping screw (47) fits through the mounting (48).
- Screw the saw table tight with the fixing handles for the saw table (18).
- Place the cross fence (2) on the saw table (15) so that the screw heads (50) slide into the guide slots (51).

- Check that the blade (24) runs freely and does not touch the saw table (15).
- To remove the saw blade guard, proceed in reverse order.

7.3 Tensioning the blade (Figure 1,9)
- **CAUTION!** Remove the tension from the blade if the band saw is not going to be used for some time. Be sure to re-tension the blade before you start the machine.
- Turn the tightening screw (9) for tensioning the blade (24) in a clockwise direction.
- The correct blade tension can be checked by applying pressure to the side of the blade with your finger, somewhere in the middle between the two blade pulleys (7 + 8). You should only be able to bend the blade (24) very slightly (approx. 1-2 mm).
- **CAUTION!** The blade may break if the tension is too high. BEWARE OF INJURY! If the tension is too low, the powered blade pulley (7) will spin while the blade does not move.

7.4 Adjusting the blade (Figure 1,10-12)
- **CAUTION!** The blade must be properly clamped before the blade can be adjusted.
- Undo the fasteners (13) and open the side cover (12,14).
- Turn the upper blade pulley (8) slowly in a clockwise direction.
  The blade (24) should run centrally on the blade pulley (8).
  If it does not, the angle at which the upper blade pulley (8) tilts must be adjusted.
- If the blade (24) runs more towards the rear of the blade pulley (8), i.e. towards the machine frame (23), the setting screw (21) must be turned in an anticlockwise direction. Then turn the blade pulley (8) slowly with the other hand to check the position of the blade (24).
- If the blade (24) runs towards the front edge of the belt pulley (8), the setting screw (21) must be turned in a clockwise direction.
- After adjusting the upper blade pulley (8), check the position of the blade (24) on the lower blade pulley (7).
  Again, the blade (24) should run in the middle of the blade pulley (7). If it does not, the angle at which the upper blade pulley (8) tilts must be adjusted again.
- The blade pulley must be turned several times until the adjustment of the upper blade pulley (8) has an effect on the position of the blade on the lower blade pulley (7).
- When adjustment has been completed, close the side cover (12,14) again and secure it with the fasteners (13).

7.5 Adjusting the blade guide (Fig. 10-12)
Whenever you change the blade you must reset both the support bearings (30 + 31) and the guide pins (28 + 29).
- Undo the fasteners (13) and open the left side cover (12).

7.5.1. Upper support bearing (Fig. 10-12)
- Undo the screw (33).
- Move the support bearing (30) so that it is almost touching the blade (24). There should be a gap of approx. 0.5 mm.
- Re-tighten the screw (33).

7.5.2. Setting the lower support bearing (31) (Figure 10/12)
- Disassemble the saw table (15).
- Disassemble the support bearing cover (39).
- Adjust in the same way that the upper support bearing was adjusted.
  The blade (24) is only supported by the support bearings (30 + 31) during cutting. When idle the blade should not touch the ball bearings.

7.5.3. Setting the upper guide bearings (28) (Figure 10-12)
- Undo the screw (35).
- Move the upper blade guide (11) so that there is a gap of approx. 1 mm between the front edge of the guide bearings (28) and the gullet of the blade in front.
- Re-tighten the screw (35).
- **CAUTION!** The blade will be rendered useless if the teeth touch the guide bearings while the blade is running.
- Undo the screws (37)
- Move the two guide bearings (28) towards the blade so that there is a gap of approx. 0.5 mm between the guide bearings (28) and the blade (24). (The blade must not jam.)
- Re-tighten the screws (37).
- Turn the upper blade pulley (8) several times in a clockwise direction.
- Check the setting of the guide bearings (28) again and re-adjust if necessary.

7.5.4. Setting the lower guide bearings (29) Figure (10-12)
- Disassemble the saw table (15) (see 7.2).
- Undo the screw (40)
- Move the mount (49) of the guide pins (29) so that there is a gap of approx. 1 mm between the

front edge of the guide pins (29) and the gullet of the blade in front.
- Re-tighten the screws (40).
- **CAUTION!** The blade will be rendered useless if the teeth touch the guide pins while the blade is running.
- Undo the screws (38).
- Move the guide pins (29) towards the blade so that there is a gap of max. 0.5 mm between the guide pins (29) and the blade (24). (The blade must not jam.)
- Re-tighten the screws (38).
- Turn the lower blade pulley (7) several times in a clockwise direction.
- Check the setting of the guide pins (29) again and re-adjust if necessary.

7.6 Adjusting the upper blade guide (11) (Fig. 1/13)
- Undo the fixing handle for blade guide (20).
- Lower the blade guide (11) as close as possible to the workpiece to be cut (the gap should be approx. 2-3 mm).
- Re-tighten the fixing handle for blade guide (20).
- Check the setting before each cut and re-adjust if necessary.

7.7 Adjusting the saw table (15) to 90° (Fig. 7,14)
- Move the upper blade guide (11) to the top.
- Undo the fixing handle for saw table (18).
- Set the angle (d) between the blade (24) and the table (15).
- Tilt the saw table (15) by turning it so that the angle between it and the blade (24) isprecisely 90°.
- Re-tighten the fixing handle for saw table (18).
- Undo the screw (S) of the pointer of the dial scale (16), set the pointer toexactly 0° and tighten the screw (S) again.
- No bracket included.

7.8 Selecting the blade
The blade supplied with the band saw is designed for all-purpose use. When you select a blade you should have regard to the following criteria:
- Use a narrow blade to cut tighter radii than you can with a wider blade.
- Wide blades are used to saw straight cuts. This is particularly important in cutting wood because the blade has a tendency to follow the grain of the wood and thereby deviate easily from the cutting line.
- Finely toothed blades provide smoother cuts but are slower than coarse blades.

Important: Never use warped or lacerated blades!

7.9 Replacing the blade (Figure 1,15)
Move the blade guide (11) into a position approximately half way between the table (15) and the machine frame (23).
- Undo the fasteners (13) and open both side covers (12 & 14).
- Remove the cross fence (2).
- Turn the tightening screw (9) anti-clockwise to remove the tension from the blade (24).
- Remove the blade (24) from the blade pulleys (7,8) and take out through the slot in the table (15).
- Fit the new blade (24), aligned centrally on the blade pulleys (7,8).
- The teeth of the blade (24) must point downwards in the direction of the table.
- Tension the blade (24) (see 7.2).
- Close the side cover (12) again.

7.10 Changing the rubber tires on the blade pulleys (Fig. 16)
After a certain time the rubber tires (3) on the blade pulleys (7,8) will get worn by the sharp teeth of the blades and must be replaced.
- Open the side cover (12).
- Remove the blade (24) (see 7.7).
- Lift the edge of the tire (3) with a screwdriver (P) and remove from the blade pulley (8).
- Repeat for the lower blade pulley (7).
- Fit the new rubber tire (3), mount the blade (24) and close the side cover (12) again.

7.11 Changing the table insert (Figure 17)
To prevent increased likelihood of injury the table insert (17) should be changed whenever it is worn or damaged.
- Dismantle the saw table (15) (see 7.2).
- Push out the worn table insert (17).
- Fit the replacement table insert by following the above in reverse.

7.12 Extractor socket (Fig. 1-2)
The band saw is equipped with two extractor sockets for extracting sawdust and chips. The equipment may only be used with the extractor function. The extraction channels must be checked and cleaned at regular intervals.
Make sure that the extractor connection which is not in use is always sealed off with the supplied caps.

7.13 Adjusting the blade speed (Fig. 26)

The band saw can be operated at two blade speeds. To change the position proceed as follows:

- Slacken the drive belt (54) by turning the hand wheel (4) in an anticlockwise direction.
- Move the belt to the desired position on the belt pulley (55) and the lower blade pulley (7).
  Tension the drive belt (54) again by turning the hand wheel (4) in a clockwise direction.
  Important: Drive belts must not be tensioned too much.

7.14 Transport

Remove the equipment from the base frame. Transport the machine frame and the base frame separately. Never lift the equipment by the saw table and cover the blade with the blade guide during transport.

8. Operation

8.1. ON/OFF switch (Fig. 18)

- To turn the saw on, press the green button “I”.
- To turn the saw off again, press the red button “0”.
- Your band saw has a switch with undervoltage release. After a power failure you must re-activate the switch.

8.2 Parallel stop (Fig. 19/20)

The parallel stop is used as a guide in slitting.

- Place the parallel stop (22) onto the cross fence (2) on the left or right and set the desired dimension.
- Clamp the parallel stop in the desired position by pressing the clamping lever (25).
- The chain bar can be used for thinner workpieces as shown in Figure 19 and for thicker workpieces as shown in Figure 20.

8.3. Angular cuts (Figure 7/21)

To enable you to perform angular cuts parallel to the blade (24), the table (15) can be tilted forwards between 0° - 45°.

- Undo the fixing handle for saw table (18).
- Tilt the saw table (15) forward until required angle value has been set on the man scale (16). Re-tighten the fixing handle for saw table (18).
- **Important:** When the table (15) is tilted, place the parallel stop (22) to the right of the blade (24) looking in the direction in which you are working, on the side pointing downwards (provided the workpiece is wide enough) in order to stop the workpiece from slipping off.

9. Operation

Important! After every new adjustment we recommend you to make a trial cut in order to check the new settings.

- For all cutting operations it is important to position the blade guide (11) as close as possible to the workpiece (see 7.5).
- Always guide the workpiece with both hands, holding it flat on the table (15) in order to prevent the blade (24) from jamming.
- Feed the workpiece at a uniform speed that enables the blade to cut through the material without difficulty and without blocking.
- Always use the parallel stop (22) on all cuts for which they are intended.
- Always aim at making a complete cut in one pass rather than in a stop-and-go operation requiring the workpiece to be withdrawn. If you have to withdraw the workpiece, switch off the band saw first and wait for the blade (24) to stop before freeing the workpiece.
- The workpiece must always be guided by the longer side during cutting.

Important! When handling narrower workpieces, it is essential to use a push stick. The push stick (53) must always be kept close at hand at the hook (52) provided for that purpose on the side of the saw (Figure 24).

9.1 Longitudinal cuts (Figure 22,23)

Longitudinal cutting (also known as slitting) is when you use the saw to cut along the grain of the wood.

- Place the parallel stop (22) to the left of the blade (24), as far as possible, for the width required.
- Lower the blade guide (11) down to the workpiece. (See 7.5.).
- Switch on the saw.
- Press the edge of the workpiece with your right hand to hold it securely against the parallel stop (22) and flat on the table (15).
- Guide the workpiece along the parallel stop (22) and through the blade (24) at a uniform speed.
- Important: Long workpieces must be secured against falling off at the end of the cut (e.g. with a roller stand etc.)

9.2 Making angular cuts (Figure 21)

- Set the saw table to the desired angle (see 8.3).
- Cut as described in 9.1.

9.4. Freehanded cuts (Figure 24)
One of the most outstanding features of a band saw is the ease with which it allows you to make curved cuts and radii.

- Lower the blade guide (11) down to the workpiece. (See 7.6.)
- Switch on the saw.
- Hold the workpiece securely on the table (15) and guide slowly through the blade (24).
- Freehanded cuts should be made at low feed speed so that you can guide the blade (24) along the required line.
- It often pays to first cut off surplus curves and corners up to about 6 mm from the cutting line.
- In the case of curves which are too tight for the blade to cut correctly, it can help to make a series of close-lying cuts at right angles to the curved line. When you saw the radius the material will simply drop off.

9.5 Sawing with the angle stop (Fig. 27)
With the saw table level you can use the angle stop (19) to cut workpieces at a preset angle. With the workpiece resting against the angle stop, push it into the blade.

10. Maintenance

- **Caution!** Pull out the power plug first.
- Remove dust and dirt regularly from the band saw. Cleaning is best carried out with a fine brush or a cloth.
- Do not use caustic cleaning agents for cleaning plastic.

11. Ordering replacement parts

Please quote the following data when ordering replacement parts:

- Type of machine
- Article number of the machine
- Identification number of the machine
- Replacement part number of the part required

For our latest prices and information please go to www.einhell.com.au

12. Disposal and recycling

The unit is supplied in packaging to prevent its being damaged in transit. This packaging is raw material and can therefore be reused or can be returned to the raw material system.
The unit and its accessories are made of various types of material, such as metal and plastic.
Defective components must be disposed of as special waste. Ask your dealer or your local council.

The guarantee provided in this Guarantee Certificate is given by Einhell Australia Pty Limited ACN 134 632 858 of 6/166 Wellington Street, Collingwood, Victoria (Telephone number 1300 922 271) **(Einhell Express Guarantee).**

GB GUARANTEE CERTIFICATE

Dear Customer,

All of our products undergo strict quality checks. In the unlikely event that your device develops a fault, please contact our service department at the address shown on this guarantee certificate. Of course, if you would prefer to call us then we are also happy to offer our assistance under the service number printed below. Please note the following terms under which claims under the Einhell Express Guarantee can be made:

1. The benefits conferred by the Einhell Express Guarantee are in addition to all rights and remedies which you may be entitled to under the Australian Consumer Law, and any other statutory rights you may have under other applicable laws. This Einhell Express Guarantee does not exclude, restrict or modify any such rights or remedies.

   We do not charge you for the Einhell Express Guarantee.

2. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

3. The Einhell Express Guarantee only covers problems caused by material or manufacturing defects, and our liability under the Einhell Express Guarantee is limited, at our discretion, to the rectification of these defects or replacement of the product. Please note that the product has not been designed for use in commercial, trade or industrial applications. Consequently, the Einhell Express Guarantee will not apply if the product is used in commercial, trade or industrial applications or for other equivalent activities.

4. The following are also excluded from the Einhell Express Guarantee: compensation for transport damage, damage caused by failure to comply with the installation/assembly instructions or damage caused by unprofessional installation, failure to comply with the operating instructions (e.g. connection to the wrong mains voltage or current type), misuse or inappropriate use (such as overloading of the product or use of non-approved tools or accessories), failure to comply with the maintenance and safety regulations, ingress of foreign bodies into the product (e.g. sand, stones or dust), effects of force or external influences (e.g. damage caused by the product being dropped) and normal wear resulting from proper operation of the product. The Einhell Express Guarantee will also not apply if any attempt is made to tamper with the product.

5. The Einhell Express Guarantee is valid for a period of 2 years starting from the purchase date of the product. Claims made under the Einhell Express Guarantee should be submitted before the end of this guarantee period and within two weeks of the defect being noticed. No claims under the Einhell Express Guarantee will be accepted if submitted after the end of this guarantee period. The original guarantee period remains applicable to the device even if repairs are carried out or parts are replaced. In such cases, the work performed or parts fitted will not result in an extension of the guarantee period for the Einhell Express Guarantee, and the Einhell Express Guarantee will not apply for the work performed or parts fitted. This also applies when an on-site service is used.

6. To make a claim under the Einhell Express Guarantee, please send the relevant product postage-free to the address shown below and enclose either the original or a copy of your sales receipt or another dated proof of purchase. It would help us if you could describe the nature of the problem in as much detail as possible. If the defect is covered by the Einhell Express Guarantee, your product will be repaired immediately and returned to you, or we will send you a new device (at our election).

   Any costs incurred by you in making a claim under this Einhell Express Guarantee, unless specified otherwise in this guarantee certificate, must be borne by you.

Of course, we are also happy to offer a chargeable repair service for any defects which are not covered by the scope of the Einhell Express Guarantee or for products which are no longer covered by the Einhell Express Guarantee. To take advantage of this service, please send the product to our service address.

EINHELL AUSTRALIA PTY LTD
6/166 Wellington Street
Collingwood VIC 3066
Australia
Phone: 1300 922 271

EH 06/2012 (01)

EH 06/2012 (01)